



The Radioelectric Experimental Centre G. Marconi (CReSM) represents a natural continuation of Guglielmo Marconi's research activities, that he himself founded in 1933 as "Centro Radioelettrico Sperimentale del Consiglio Nazionale delle Ricerche di Torre Chiaruccia" in Santa Marinella, in the province of Rome.

The Centre was re-established in 1999, mainly dealing with research activities and development of telecommunications as well as with advanced education in new technologies in ICT field. It organizes various scientific events.

The Centre's main research topics are:

- wireless systems (WiFi and WiMax),
- cyber security,
- digital signal processing,
- satellite communication,
- advanced software platforms.

The optimised networks are projected for wireless systems (WiFi and WiMax), focusing attention to the numerous aspects that refer to the communication security and service quality.

The sector of cyber security, experiments advanced procedures of data encryption and digital signature.

In digital signal processing, the Centre develops applications that aim to favour optimization of electronic devices, employed for both information transmission and energy production.

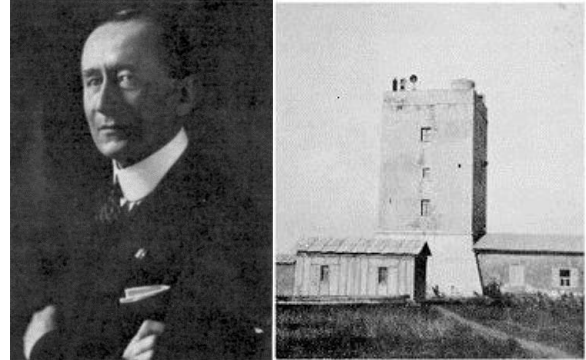


The interest for the satellite communication is called on to support the services, such as tele-teaching and tele-medicine, in the areas which have no access infrastructures to the terrestrial broadband network.

In advanced software platforms the Centre exploits data mining procedures for information retrieval related to business management.

Since 2001 until 2009, the Centre has been in Area Science Park, Trieste, where a laboratory on radio mobile service was organized, together with ISCTI

(Istituto Superiore Comunicazioni e Tecnologie dell'Informazione) of the Ministry of Economic Development.



Organization

The CReSM is a public institution controlled by MIUR. It is directed by an Administrative Council, composed by representatives of various Ministries and scientific institutes. The historic headquarter is in Santa Marinella, and its legal main office is at Università di Tor Vergata in Rome.

The most important operational office is in Rome at the Università di Tor Vergata. An operational branch office is in Ancona, closely cooperating with the Università Politecnica delle Marche.

In the technological transfer activity, the Centre represents the link between the research institutes, universities and various enterprises, especially those of SME type.

Web site : www.centromarconi.it

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